Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-24-02** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/10/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.89	_
2	Finess by Air permeablity method (m^2/kg,Min)	289.54	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

25/04/18

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-24-02** **Date: 22-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/10/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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BBMP, Bangalore-97

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Authorized Signatory
Quality Manager

22/05/18

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-24-02** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/10/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7182	7420	49.5	50.5	30-70
4	10 mm	5140	12560	83.7	16.3	10-35
5	4.75 mm	2085	14645	97.6	2.4	0-5
6	Pan	355	15000	100.0	0	---

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore-97

03/06/2018

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-24-02** **Date: 26-04-18**

Sample ID No : 2018-04-24-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.3	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1..52	_
6	Water Absorption(%)	0.15	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-24-02** **Date: 26-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer Reference	:	BBMP/EE/BTP/WO/10/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-04-18

Assistant Executive Engineer
Vidyaranyapura Sub Divn
BBMP, Bangalore - 97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	321	321	6.4	93.6	90-100
3	10 mm	3015	3336	66.7	33.3	25-55
4	4.75 mm	1403	4739	94.8	5.2	0-10
5	Pan	261	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-24-02** **Date: 26-04-18**

Sample ID No : 2018-04-24-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-24-02** **Date: 26-04-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-04-18

Sample ID No : 2018-04-24-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 24-04-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	185	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	202	416	41.6	58.4	30-70	55-90	75-100	90-100
5	600 micron	193	609	60.9	39.1	15-34	35-59	60-79	80-100
6	300 micron	154	763	76.3	23.7	5-20	8-30	12-40	15-50
7	150 micron	171	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-24-02** **Date: 26-04-18**

Sample ID No : 2018-04-24-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-04-24-02** **Date: 25-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075
Customer's Reference	:	BBMP/EE/BTP/WO/10/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-04-18
Sample ID No	:	2018-04-24-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	24-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.390	508	625	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	535	652	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	552	672	20.0%	Satisfactory	Satisfactory

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Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-02** **Date: 03/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-02 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	26/04/2018	03/05/2018	150.23 X 150.44 X 150.35	22601	8.205	282.5	12.5	12.2
2	PCC	M15	26/04/2018	03/05/2018	149.63 X 151.34 X 150.74	22645	8.243	274.0	12.1	
3	PCC	M15	26/04/2018	03/05/2018	149.72 X 151.72 X 150.36	22716	8.175	270.3	11.9	

Note:

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05/05/2018

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-02** **Date: 03/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-02 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	26/04/2018	03/05/2018	150.23 X 150.44 X 150.35	22601	8.205	282.5	12.5	12.2
2	PCC	M15	26/04/2018	03/05/2018	149.63 X 151.34 X 150.74	22645	8.243	274.0	12.1	
3	PCC	M15	26/04/2018	03/05/2018	149.72 X 151.72 X 150.36	22716	8.175	270.3	11.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-30-02** **Date: 24/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-04-18

Sample ID No : 2018-04-30-02 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	26/04/2018	24/05/2018	149.11 X 151.23 X 149.65	22550	8.159	514.1	22.8	23.0
2	PCC	M15	26/04/2018	24/05/2018	150.37 X 15.42 X 150.63	2319	8.176	54.3	23.4	
3	PCC	M15	26/04/2018	24/05/2018	150.49 X 150.11 X 150.47	22590	8.205	512.8	22.7	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-02-03** **Date: 04/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-03 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/04/2018	04/05/2018	149.85 X 149.85 X 151.22	22455	8.152	410.9	18.3	18.4
2	Drain Concrete	M20	27/04/2018	04/05/2018	150.35 X 150.49 X 150.32	22626	8.324	423.1	18.7	
3	Drain Concrete	M20	27/04/2018	04/05/2018	149.72 X 151.85 X 150.38	22735	8.208	411.5	18.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97
04/2018

CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-02-03** **Date: 25/05/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 2nd Main R/S C. Ramaiah Layout in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.k. Anil kumar, No.84-L, 2nd Floor, 3rd cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560075

Customer's Reference : BBMP/EE/BTP/WO/10/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-18

Sample ID No : 2018-05-02-03 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	27/04/2018	25/05/2018	150.34 X 149.82 X 150.34	22524	8.149	513.5	22.8	23.0
2	Drain Concrete	M20	27/04/2018	25/05/2018	150.98 X 150.35 X 150.22	22700	8.073	531.2	23.4	
3	Drain Concrete	M20	27/04/2018	25/05/2018	149.65 X 150.49 X 150.45	22521	150.940	511.2	22.7	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97

05/06/2018

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****